DOCUMENT RESUME

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TITLE	Reaching Higher: A Problem-Solving Approach To Elementary School Mathematics.
INSTITUTION	National Council of Teachers of Mathematics, Inc., Reston, Va.
SPONS AGENCY	Maryland State Dept. of Education, Baltimore.; Maryland State Higher Education Commission, Annapolis.
REPORT NO	ISBN-0-87353-304-6
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NOTE	40p.; Support also provided by the Western Maryland College.
AVAILABLE FROM	National Council of Teachers of Mathematics, 1906 Association Drive, Reston, VA 22091 ($39.50 for booklet and videotape, 20% discount for order of 10 or more shipped to the same address).
PUB TYPE	Guides - Non-Classroom Use (055) -- Guides - Classroom Use - Teaching Guides (For Teacher) (052)
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DESCRIPTORS	Elementary Education; Fractions; Inservice Teacher Education; *Learning Activities; Manipulative Materials; Mathematics Education; Preservice Teacher Education; Probability; *Problem Solving; Statistics; *Teaching Methods; Videotape Cassettes

ABSTRACT

This booklet is the print component of a Title II-funded package designed to enhance elementary school mathematics instruction through a problem solving approach that promotes mathematics learning in an environment of inquiry, risk taking, and classroom dialogue. The other component is a 28-minute videotape in which teachers present each of the three lessons described in the booklet in actual classroom settings. Lessons include the use of physical models for representing concepts, and each lesson also involves students working in whole-group and small-group settings. Each lesson includes the objective, lesson summary, materials, warm-up, development of the lesson, assessment, extensions, and follow-up activities. The lessons are also characterized by student involvement and teacher questioning. The project lessons cover the topics of probability for level K-2, money and problem solving for level 2-4, and comparing fractions for level 4-5. (KR)

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